

FIG. 1A

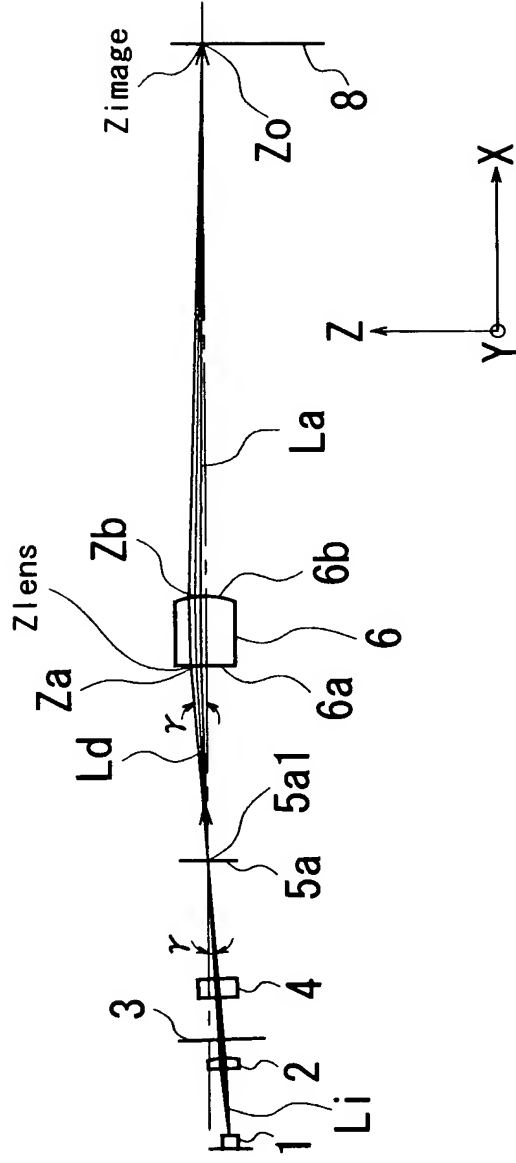


FIG. 1B

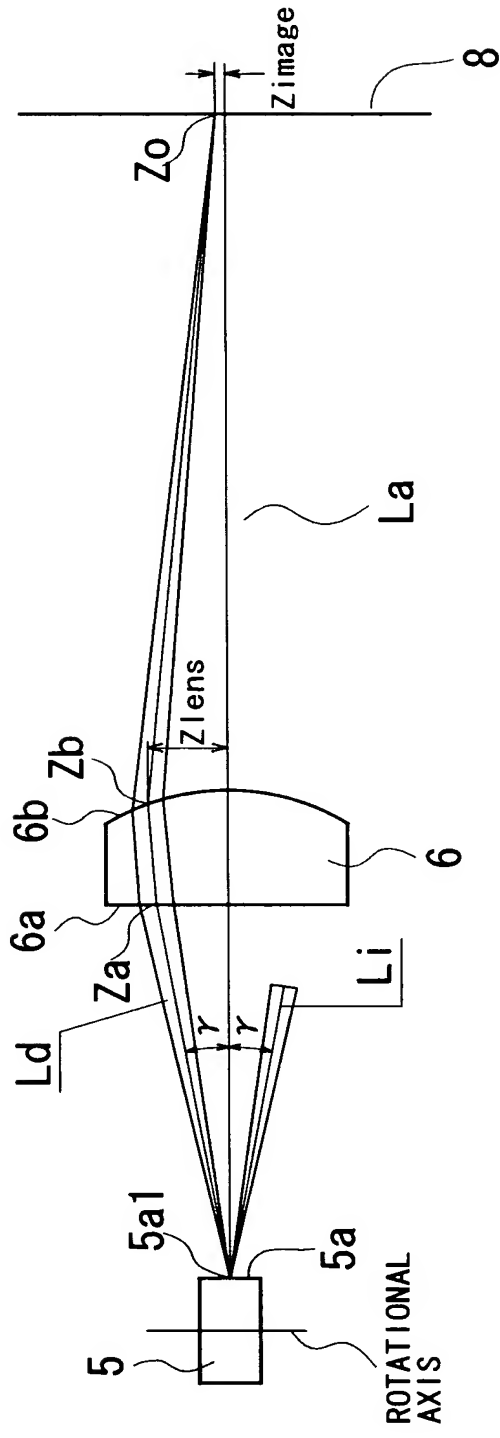
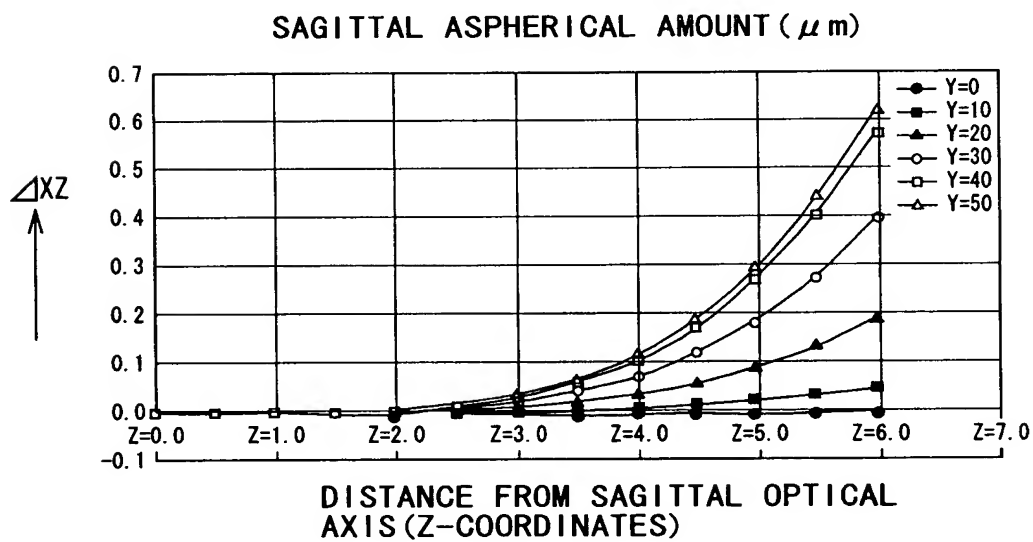
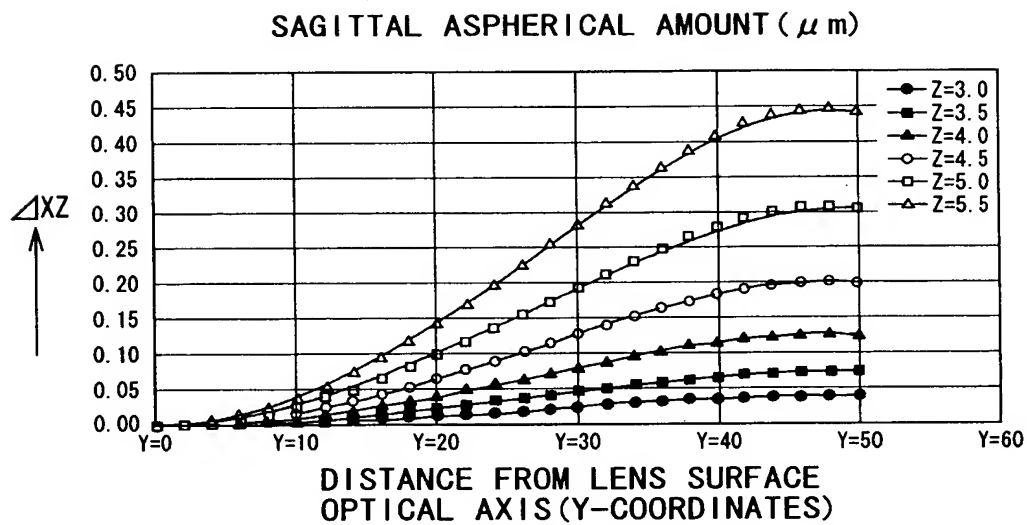


FIG. 2

SAGITTAL ASPHERICAL AMOUNT (μm) OF EXIT SURFACE 6b		DISTANCE FROM SAGITTAL OPTICAL AXIS (Z-COORDINATES)														
Y (mm) \ Z (mm)		DISTANCE FROM SAGITTAL OPTICAL AXIS (Z-COORDINATES)														
		Z=0.0	Z=0.5	Z=1.0	Z=1.5	Z=2.0	Z=2.5	Z=3.0	Z=3.5	Z=4.0	Z=4.5	Z=5.0	Z=5.5	Z=6.0		
DISTANCE FROM LENS SURFACE OPTICAL AXIS (Y-COORDINATES)	Y= 0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Y= 2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0001	0.0001	0.0003	0.0004	0.0007	0.0011	0.0016	0.0022	0.0022	0.0022
	Y= 4	0.0000	0.0000	0.0000	0.0000	0.0001	0.0003	0.0006	0.0010	0.0018	0.0028	0.0043	0.0063	0.0089	0.0089	0.0089
	Y= 5	0.0000	0.0000	0.0000	0.0001	0.0002	0.0006	0.0012	0.0023	0.0039	0.0063	0.0096	0.0141	0.0199	0.0199	0.0199
	Y= 8	0.0000	0.0000	0.0000	0.0001	0.0004	0.0011	0.0022	0.0041	0.0070	0.0111	0.0170	0.0248	0.0352	0.0352	0.0352
	Y=10	0.0000	0.0000	0.0000	0.0002	0.0007	0.0016	0.0034	0.0063	0.0108	0.0173	0.0263	0.0385	0.0545	0.0545	0.0545
	Y=12	0.0000	0.0000	0.0001	0.0003	0.0010	0.0023	0.0049	0.0090	0.0154	0.0246	0.0375	0.0549	0.0778	0.0778	0.0778
	Y=14	0.0000	0.0000	0.0001	0.0004	0.0013	0.0032	0.0065	0.0121	0.0207	0.0331	0.0504	0.0739	0.1046	0.1046	0.1046
	Y=16	0.0000	0.0000	0.0001	0.0005	0.0017	0.0041	0.0084	0.0156	0.0266	0.0426	0.0650	0.0951	0.1348	0.1348	0.1348
	Y=18	0.0000	0.0000	0.0001	0.0007	0.0021	0.0051	0.0105	0.0194	0.0332	0.0531	0.0810	0.1185	0.1679	0.1679	0.1679
	Y=20	0.0000	0.0000	0.0002	0.0008	0.0025	0.0061	0.0127	0.0236	0.0402	0.0644	0.0982	0.1437	0.2035	0.2035	0.2035
	Y=22	0.0000	0.0000	0.0002	0.0009	0.0030	0.0073	0.0151	0.0279	0.0477	0.0764	0.1164	0.1704	0.2413	0.2413	0.2413
	Y=24	0.0000	0.0000	0.0002	0.0011	0.0035	0.0085	0.0175	0.0325	0.0554	0.0888	0.1354	0.1982	0.2807	0.2807	0.2807
	Y=26	0.0000	0.0000	0.0002	0.0013	0.0040	0.0097	0.0201	0.0372	0.0634	0.1016	0.1549	0.2268	0.3212	0.3212	0.3212
	Y=28	0.0000	0.0000	0.0003	0.0014	0.0045	0.0109	0.0226	0.0419	0.0715	0.1146	0.1747	0.2557	0.3622	0.3622	0.3622
	Y=30	0.0000	0.0000	0.0003	0.0016	0.0050	0.0121	0.0252	0.0467	0.0796	0.1275	0.1944	0.2846	0.4030	0.4030	0.4030
	Y=32	0.0000	0.0000	0.0003	0.0017	0.0055	0.0134	0.0277	0.0513	0.0875	0.1402	0.2137	0.3128	0.4430	0.4430	0.4430
	Y=34	0.0000	0.0000	0.0004	0.0019	0.0059	0.0145	0.0301	0.0558	0.0951	0.1524	0.2322	0.3400	0.4815	0.4815	0.4815
	Y=36	0.0000	0.0000	0.0004	0.0020	0.0064	0.0156	0.0324	0.0599	0.1023	0.1638	0.2497	0.3655	0.5177	0.5177	0.5177
	Y=38	0.0000	0.0000	0.0004	0.0022	0.0068	0.0166	0.0344	0.0638	0.1088	0.1742	0.2656	0.3888	0.5507	0.5507	0.5507
	Y=40	0.0000	0.0000	0.0004	0.0023	0.0072	0.0175	0.0362	0.0671	0.1145	0.1834	0.2796	0.4093	0.5797	0.5797	0.5797
	Y=42	0.0000	0.0000	0.0005	0.0024	0.0076	0.0182	0.0377	0.0699	0.1193	0.1911	0.2912	0.4264	0.6038	0.6038	0.6038
	Y=44	0.0000	0.0000	0.0005	0.0024	0.0077	0.0187	0.0389	0.0720	0.1229	0.1968	0.3000	0.4392	0.6221	0.6221	0.6221
	Y=46	0.0000	0.0000	0.0005	0.0025	0.0078	0.0191	0.0396	0.0733	0.1251	0.2004	0.3055	0.4472	0.6334	0.6334	0.6334
	Y=48	0.0000	0.0000	0.0005	0.0025	0.0079	0.0192	0.0398	0.0737	0.1258	0.2015	0.3071	0.4496	0.6368	0.6368	0.6368
	Y=50	0.0000	0.0000	0.0005	0.0025	0.0078	0.0190	0.0394	0.0731	0.1247	0.1997	0.3044	0.4456	0.6312	0.6312	0.6312

FIG. 3



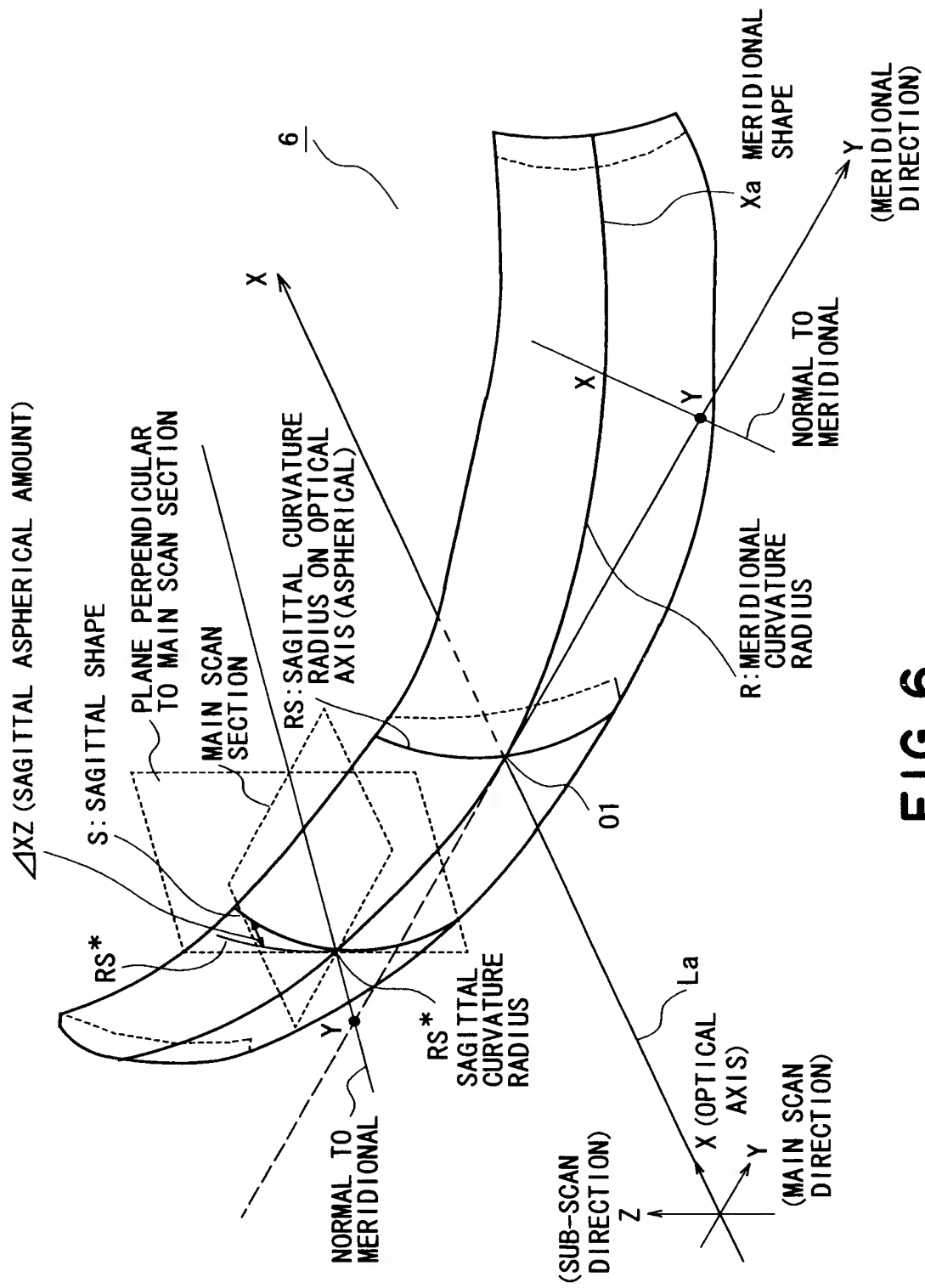


FIG. 6

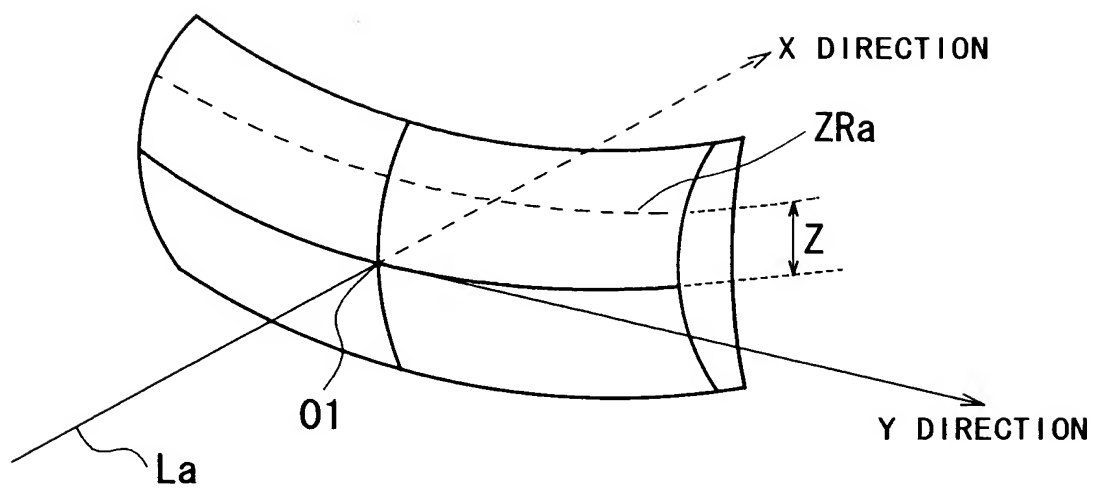


FIG. 7

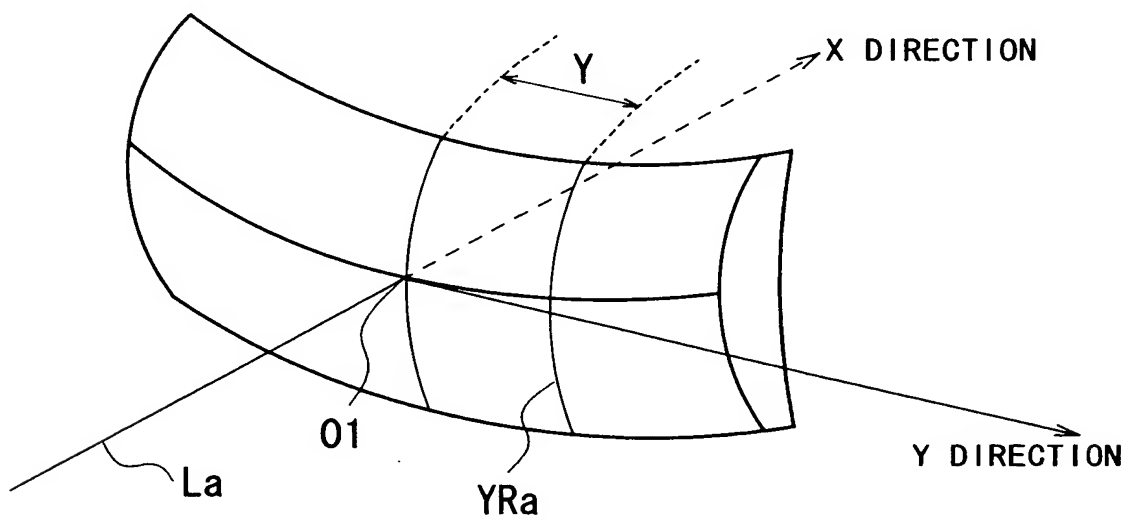


FIG. 8

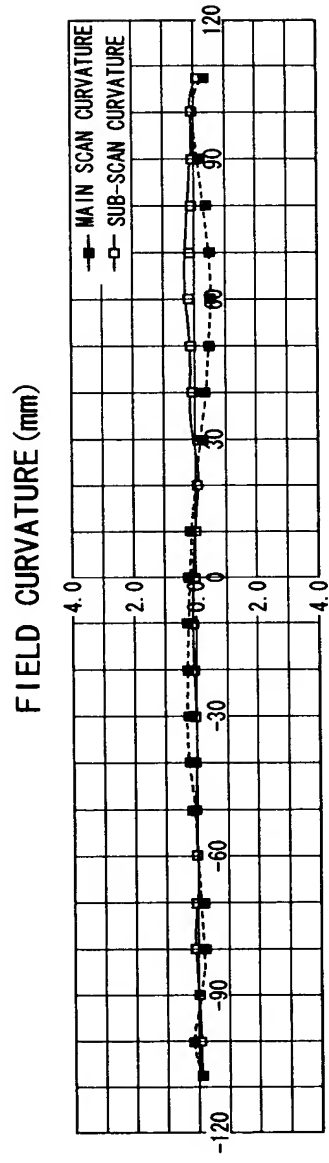


FIG. 9A

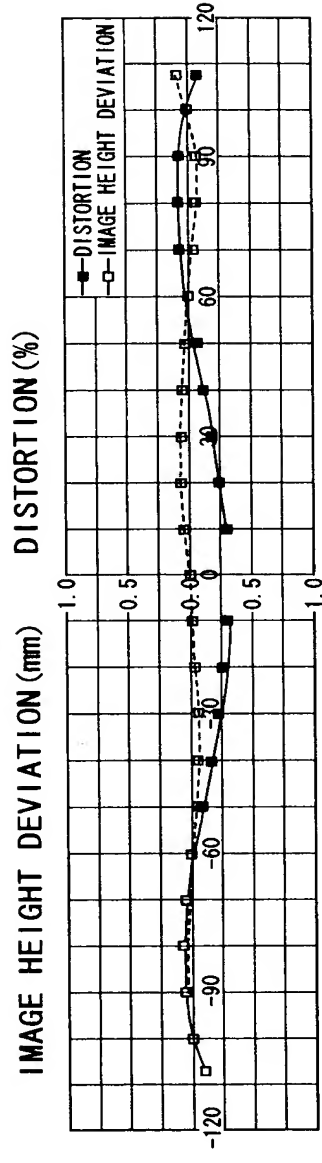


FIG. 9B

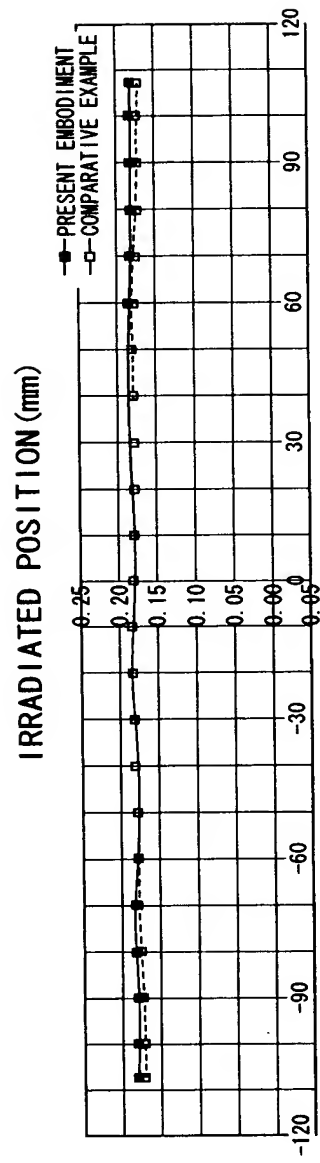


FIG. 10A

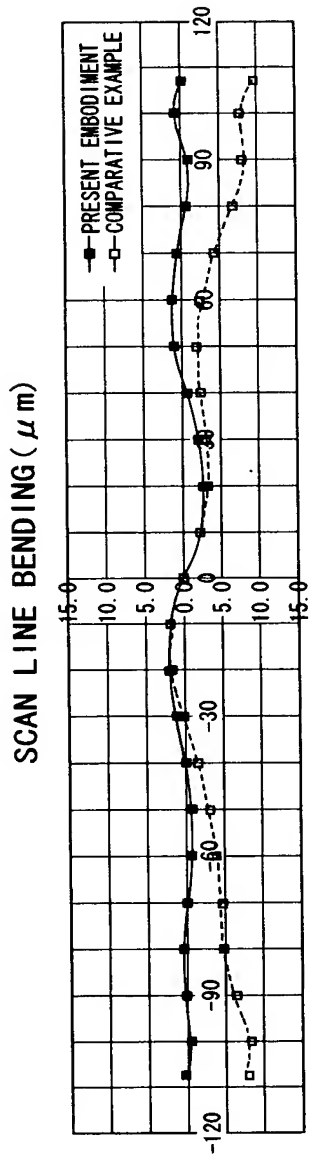


FIG. 10B

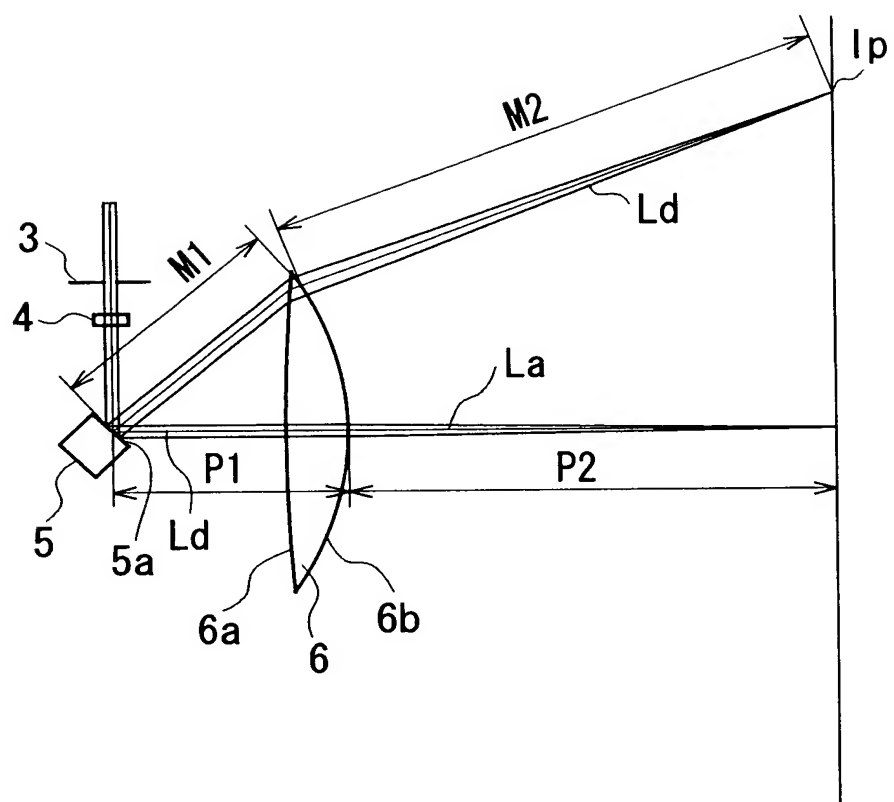


FIG. 11

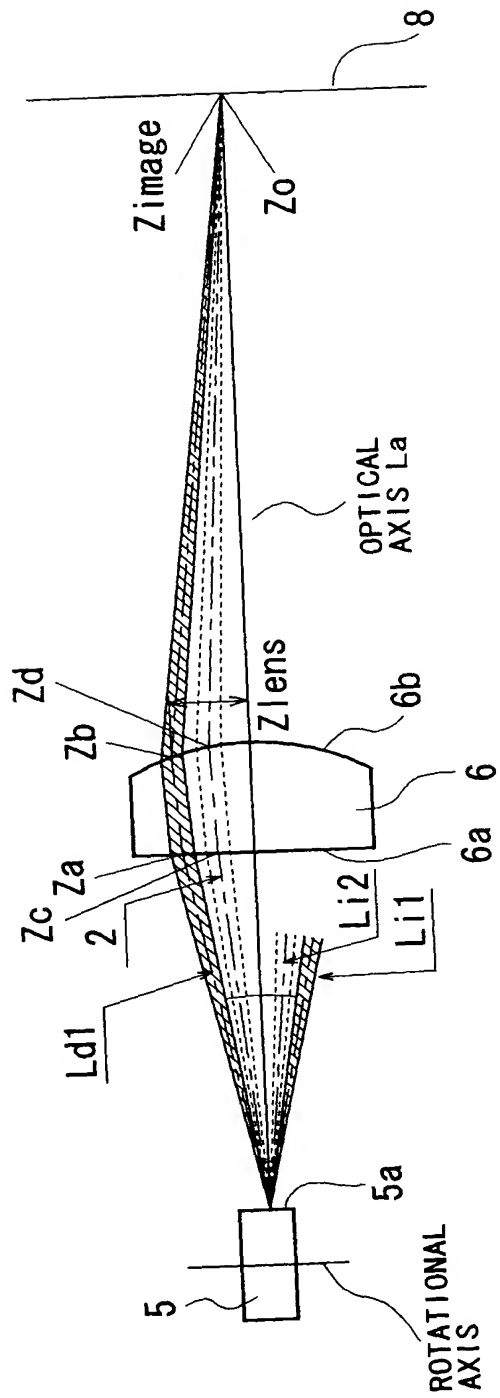
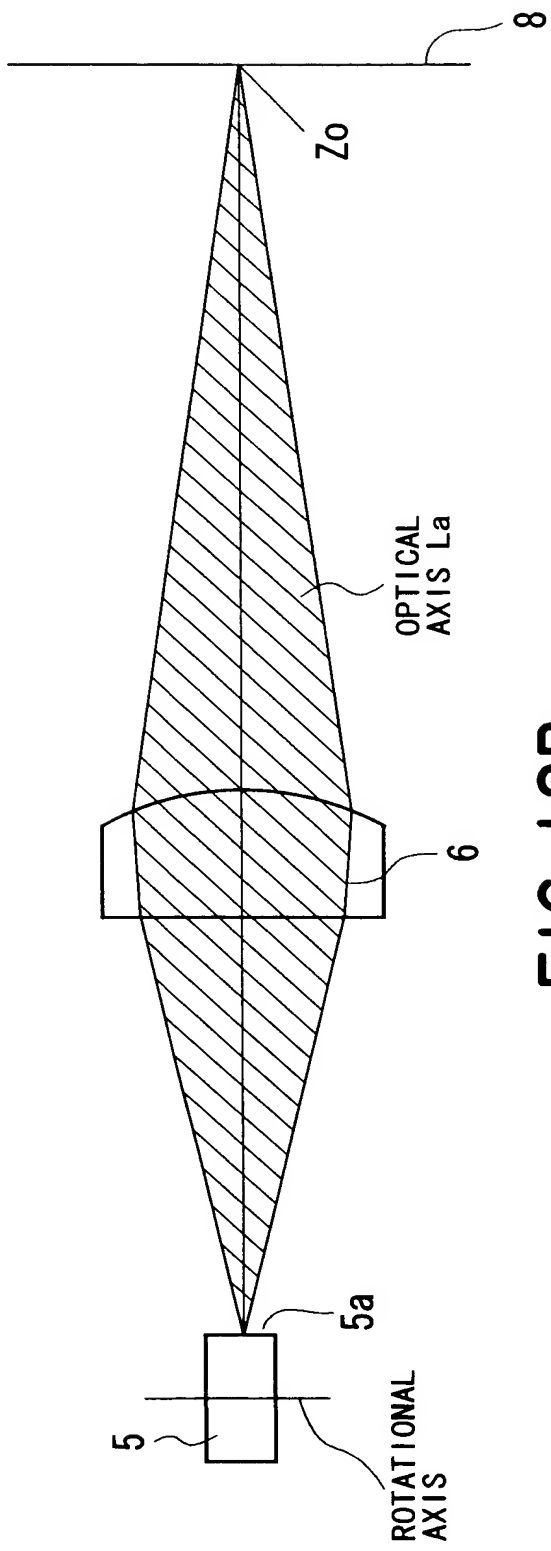


FIG. 12A



SAGITTAL ASPHERICAL AMOUNT (μm) OF EXIT SURFACE 6b														
Y (mm) \ Z (mm)	DISTANCE FROM SAGITTAL OPTICAL AXIS (Z-COORDINATES)													
	Z=0.0	Z=0.5	Z=1.0	Z=1.5	Z=2.0	Z=2.5	Z=3.0	Z=3.5	Z=4.0	Z=4.5	Z=5.0	Z=5.5	Z=6.0	
Y= 0	0.0000	0.0005	0.0086	0.0433	0.1370	0.3344	0.6935	1.2847	2.1917	3.5107	5.3508	7.8341	11.0954	
Y= 2	0.0000	0.0005	0.0086	0.0433	0.1369	0.3343	0.6931	1.2841	2.1906	3.5089	5.3481	7.8302	11.0899	
Y= 4	0.0000	0.0005	0.0085	0.0433	0.1367	0.3338	0.6921	1.2821	2.1873	3.5036	5.3400	7.8184	11.0731	
Y= 5	0.0000	0.0005	0.0085	0.0431	0.1364	0.3329	0.6903	1.2789	2.1818	3.4948	5.3266	7.7986	11.0452	
Y= 8	0.0000	0.0005	0.0085	0.0430	0.1359	0.3317	0.6879	1.2744	2.1740	3.4824	5.3077	7.7710	11.0061	
Y=10	0.0000	0.0005	0.0085	0.0428	0.1353	0.3302	0.6847	1.2686	2.1641	3.4665	5.2835	7.7355	10.9558	
Y=12	0.0000	0.0005	0.0084	0.0426	0.1345	0.3284	0.6809	1.2614	2.1520	3.4470	5.2538	7.6922	10.8944	
Y=14	0.0000	0.0005	0.0084	0.0423	0.1336	0.3262	0.6764	1.2530	2.1376	3.4241	5.2188	7.6409	10.8218	
Y=16	0.0000	0.0005	0.0083	0.0419	0.1326	0.3237	0.6711	1.2433	2.1211	3.3976	5.1784	7.5817	10.7380	
Y=18	0.0000	0.0005	0.0082	0.0416	0.1314	0.3208	0.6652	1.2323	2.1023	3.3675	5.1326	7.5147	10.6430	
Y=20	0.0000	0.0005	0.0081	0.0412	0.1301	0.3176	0.6586	1.2201	2.0814	3.3339	5.0815	7.4398	10.5369	
Y=22	0.0000	0.0005	0.0080	0.0407	0.1286	0.3141	0.6512	1.2065	2.0582	3.2968	5.0249	7.3570	10.4196	
Y=24	0.0000	0.0005	0.0079	0.0402	0.1271	0.3102	0.6432	1.1916	2.0328	3.2562	4.9630	7.2663	10.2912	
Y=26	0.0000	0.0005	0.0078	0.0397	0.1253	0.3060	0.6345	1.1754	2.0052	3.2120	4.8956	7.1677	10.1515	
Y=28	0.0000	0.0005	0.0077	0.0391	0.1235	0.3014	0.6250	1.1580	1.9755	3.1643	4.8229	7.0612	10.0007	
Y=30	0.0000	0.0005	0.0076	0.0384	0.1215	0.2965	0.6149	1.1392	1.9435	3.1131	4.7448	6.9468	9.8388	
Y=32	0.0000	0.0005	0.0075	0.0378	0.1193	0.2913	0.6041	1.1192	1.9093	3.0583	4.6613	6.8246	9.6656	
Y=34	0.0000	0.0005	0.0073	0.0370	0.1171	0.2858	0.5926	1.0978	1.8729	3.0000	4.5724	6.6944	9.4813	
Y=36	0.0000	0.0004	0.0072	0.0363	0.1146	0.2799	0.5804	1.0752	1.8342	2.9381	4.4781	6.5564	9.2858	
Y=38	0.0000	0.0004	0.0070	0.0355	0.1121	0.2737	0.5674	1.0513	1.7934	2.8727	4.3785	6.4105	9.0792	
Y=40	0.0000	0.0004	0.0068	0.0346	0.1094	0.2671	0.5538	1.0260	1.7504	2.8038	4.2734	6.2567	8.8614	
Y=42	0.0000	0.0004	0.0067	0.0337	0.1066	0.2602	0.5395	0.9995	1.7052	2.7313	4.1630	6.0950	8.6324	
Y=44	0.0000	0.0004	0.0065	0.0328	0.1036	0.2529	0.5245	0.9717	1.6577	2.6553	4.0472	5.9255	8.3922	
Y=46	0.0000	0.0004	0.0063	0.0318	0.1005	0.2454	0.5088	0.9426	1.6041	2.5758	3.9260	5.7480	8.1409	
Y=48	0.0000	0.0004	0.0061	0.0308	0.0973	0.2375	0.4924	0.9122	1.5562	2.4928	3.7994	5.5627	7.8784	
Y=50	0.0000	0.0004	0.0059	0.0297	0.0939	0.2292	0.4753	0.8805	1.5022	2.4062	3.6674	5.3694	7.6047	

DISTANCE FROM LENS SURFACE
OPTICAL AXIS (Y-COORDINATES)

FIG. 13

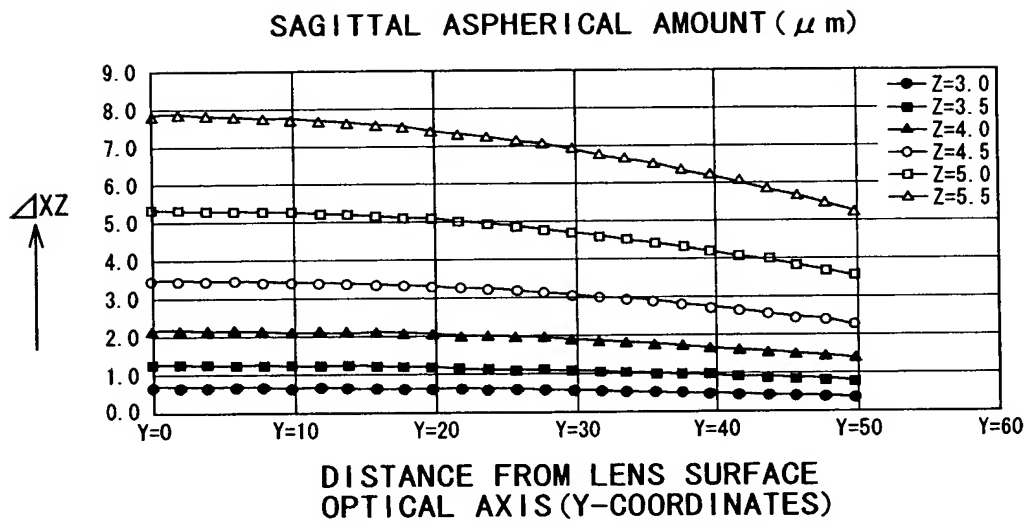


FIG. 14

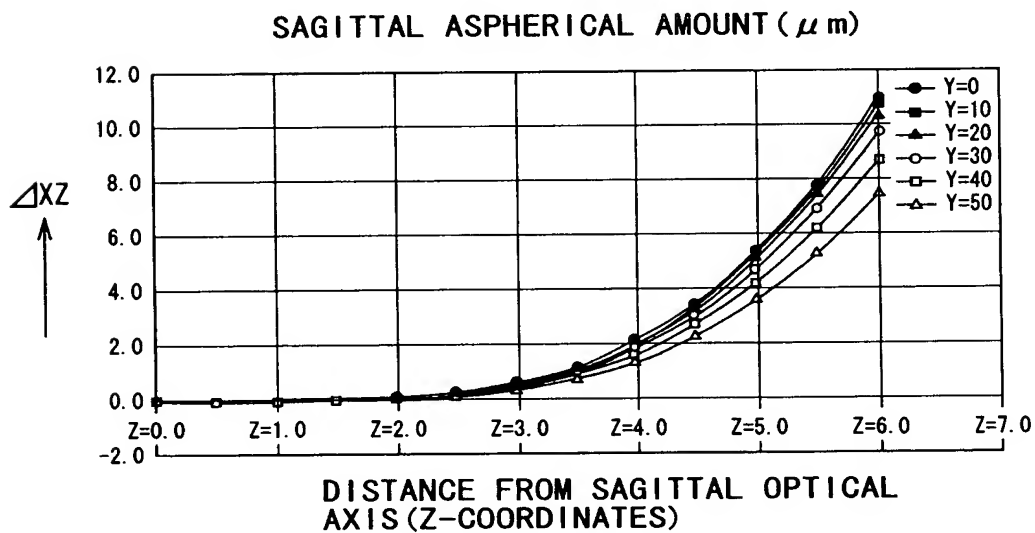


FIG. 15

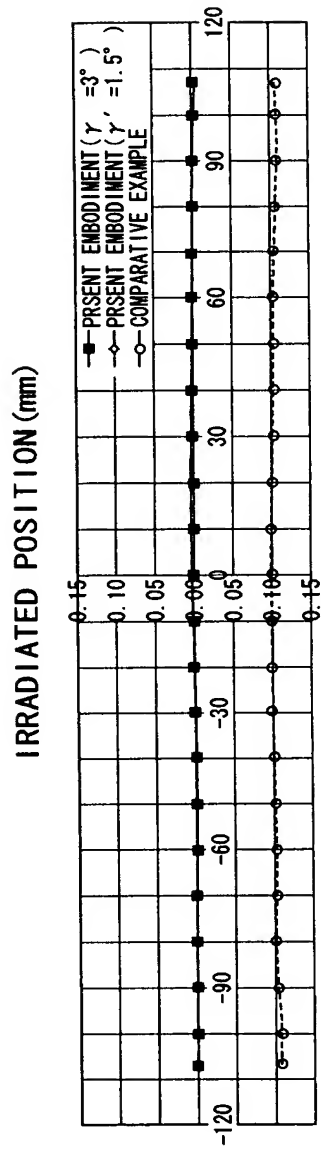


FIG. 16A

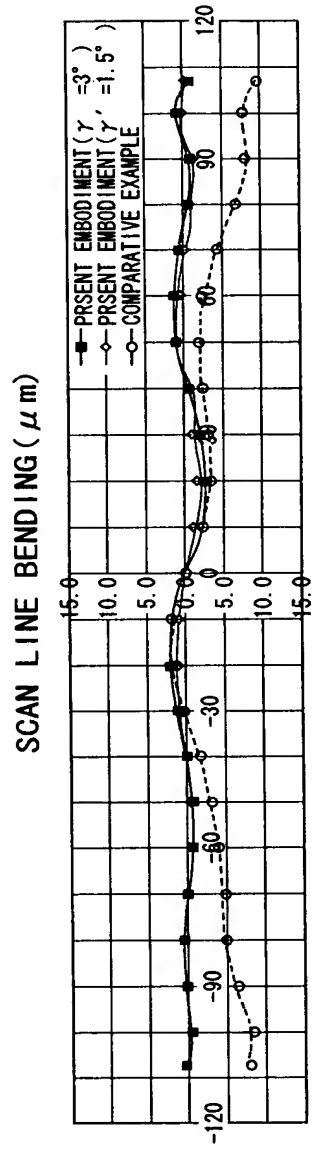


FIG. 16B

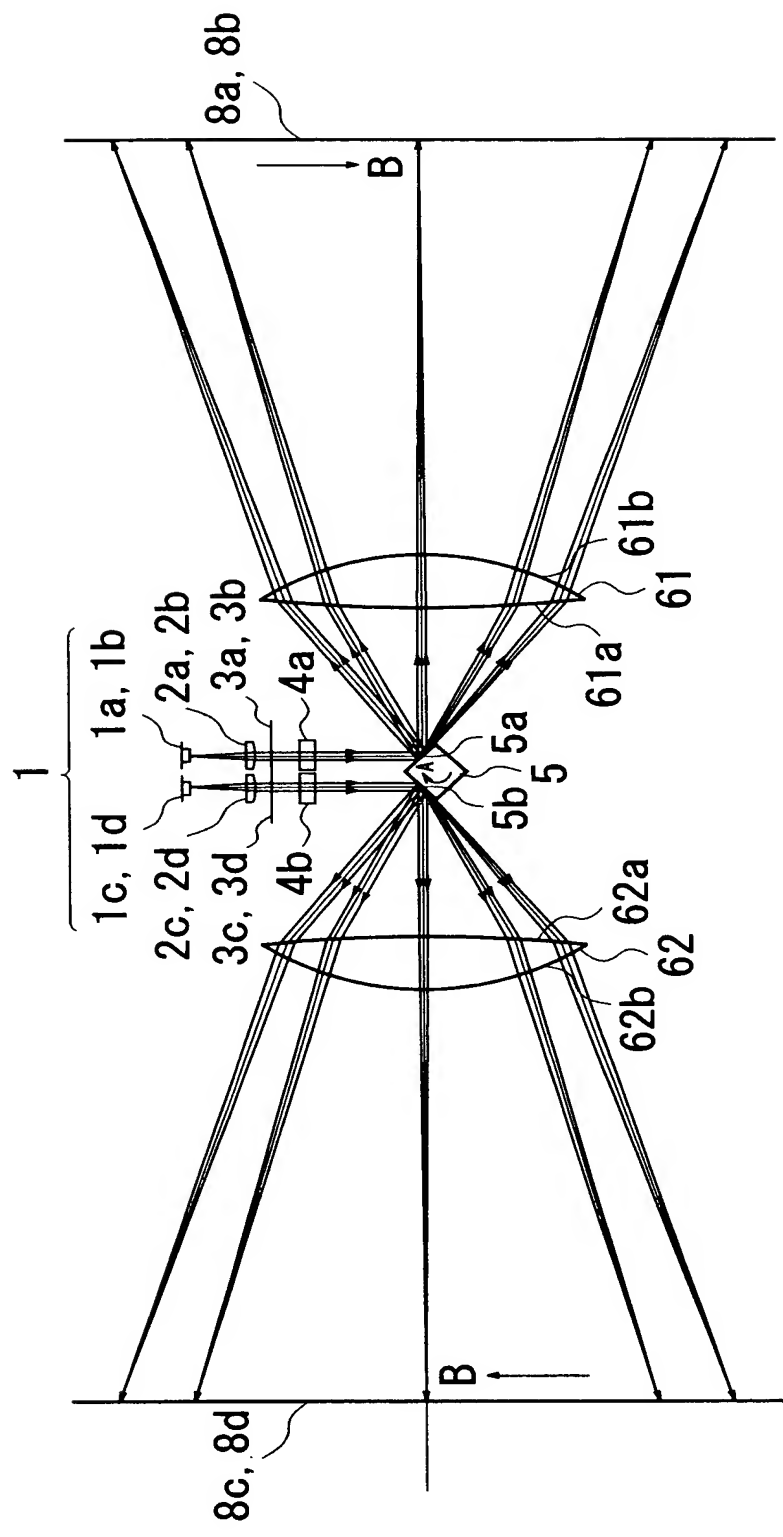


FIG. 17A

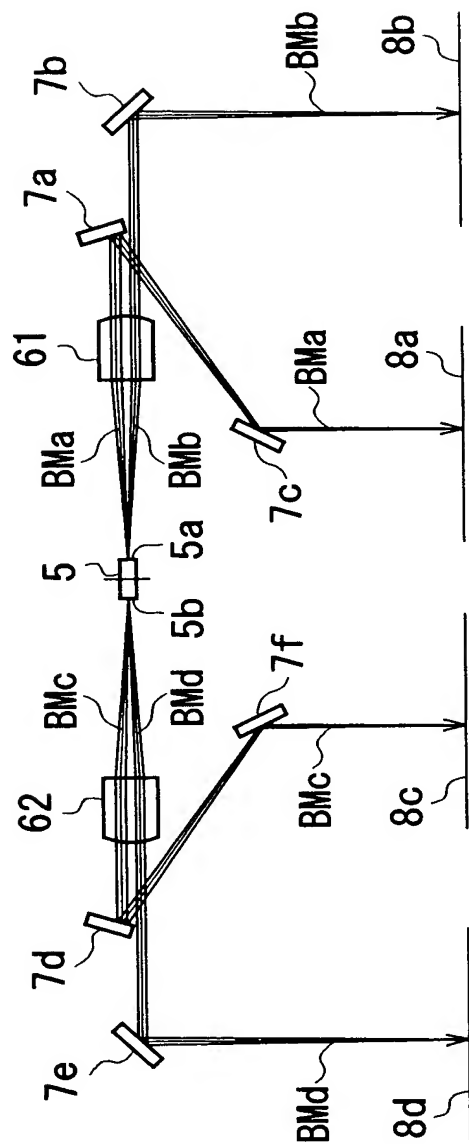


FIG. 17B

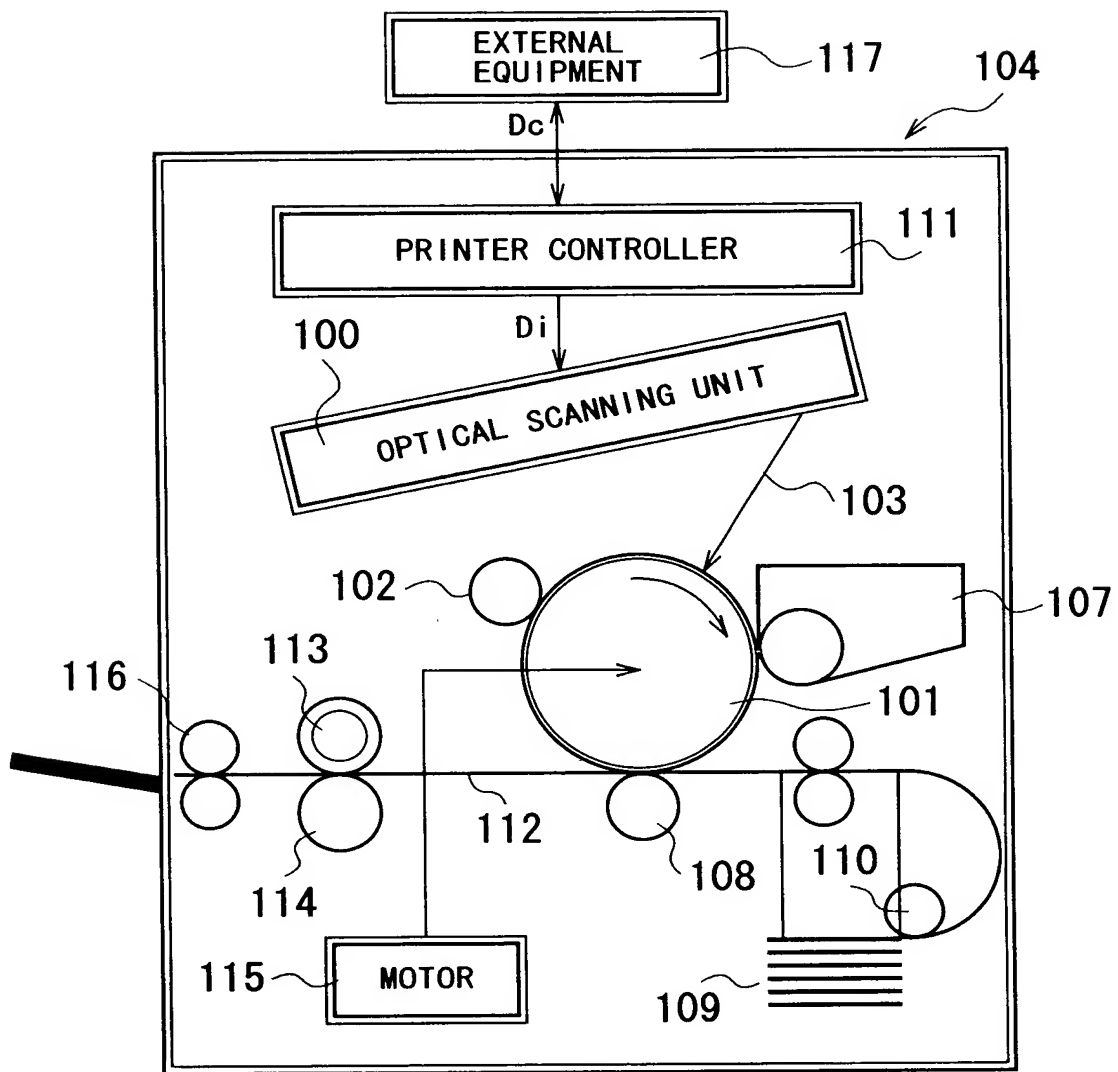


FIG. 18

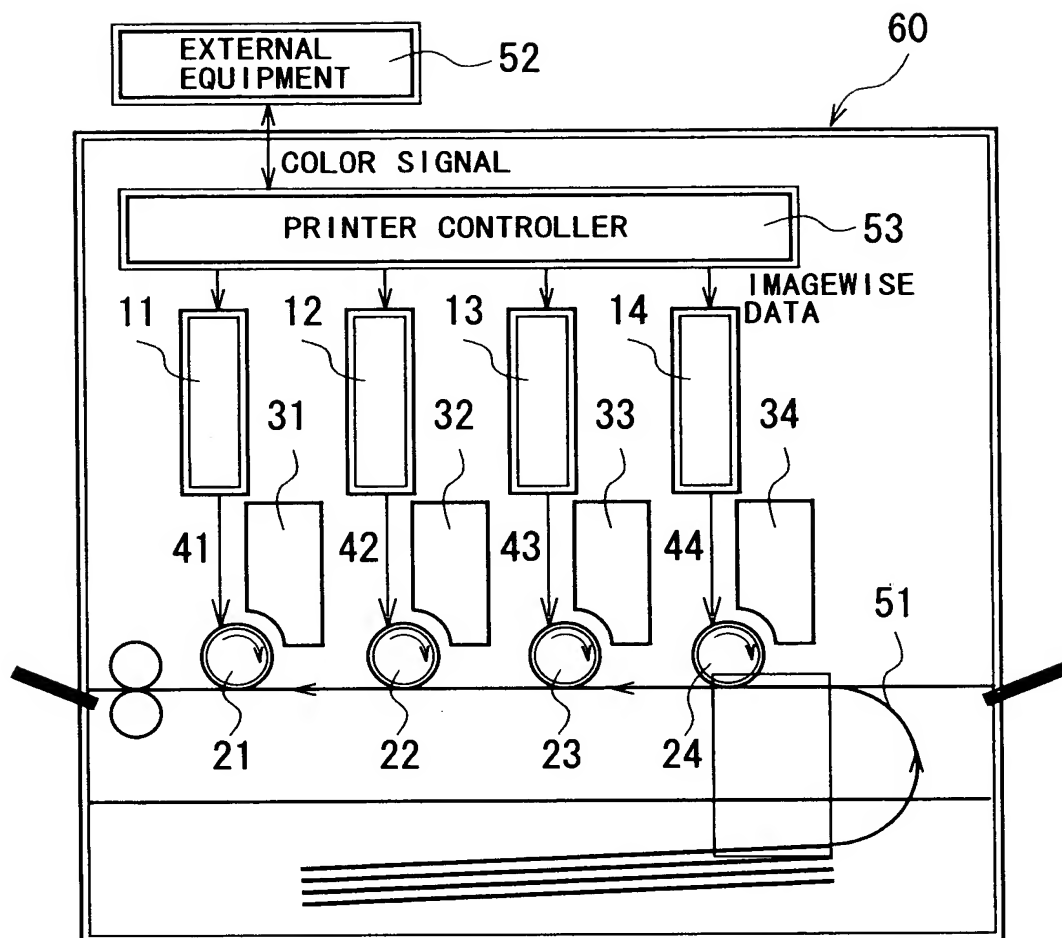


FIG. 19

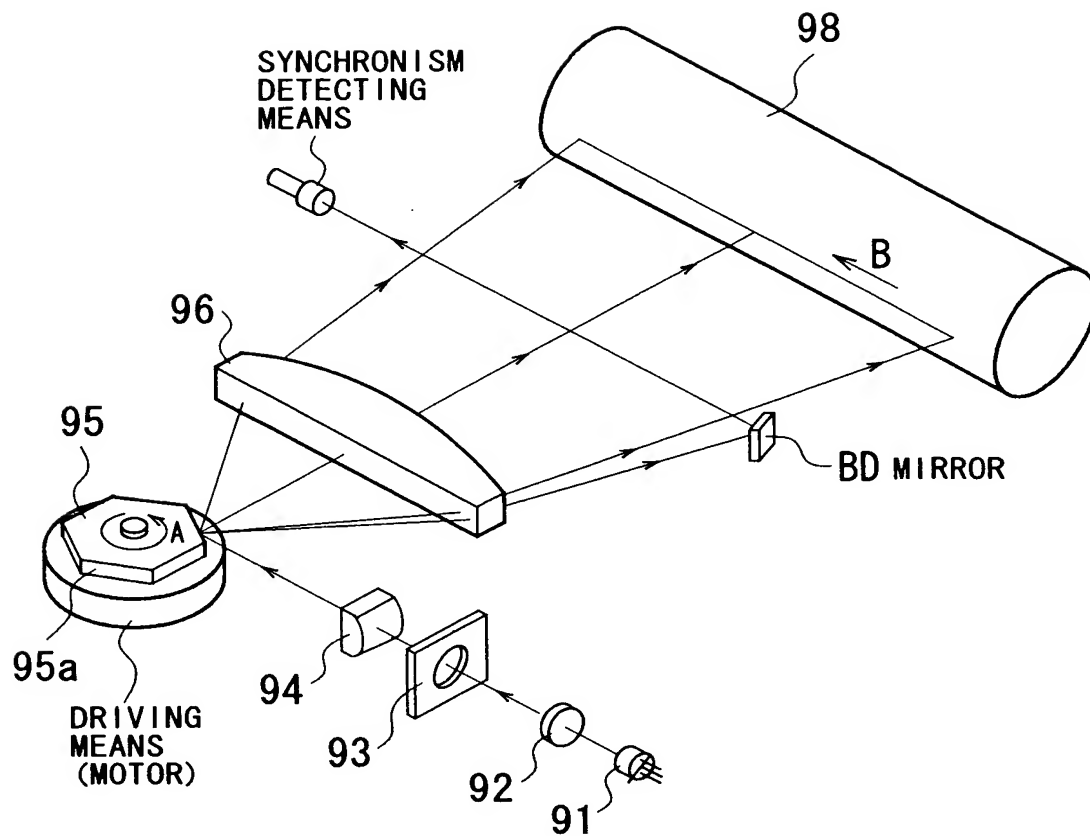
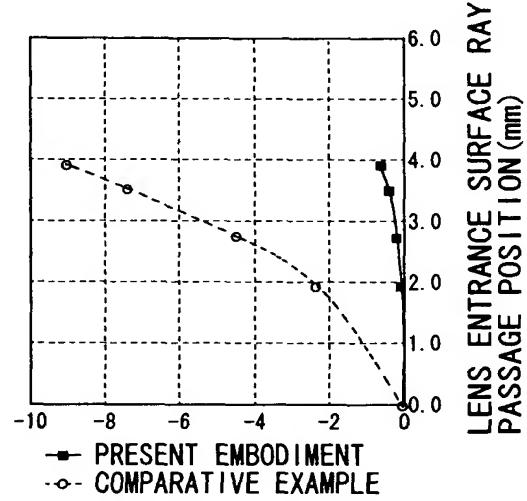


FIG. 20

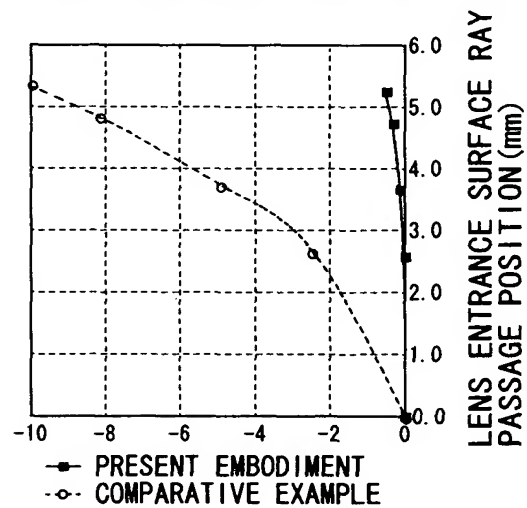
SUB-SCAN SPHERICAL ABERRATION
COMPARISON (SCAN CENTER)



SPHERICAL ABERRATION (mm)

FIG. 21A

SUB-SCAN SPHERICAL ABERRATION
COMPARISON (SCAN END PORTION)



SPHERICAL ABERRATION (mm)

FIG. 21B

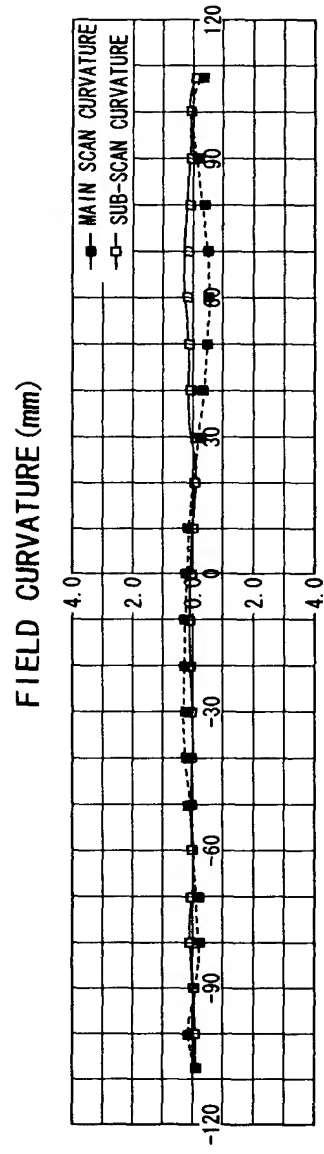


FIG. 22A

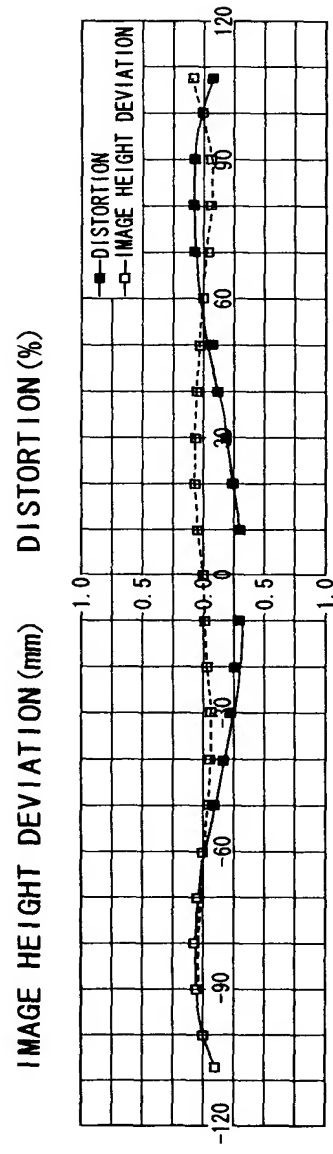


FIG. 22B